IN THE DRAWINGS

Please amend the drawings. Copies of figures with amendments in red ink are enclosed herewith.

REMARKS

The specification, claims, and drawings have been amended to comply add Sequence identification numbers in order to comply with sequence listing requirements.

It is respectfully submitted that no new matter has been introduced by the present amendments and entry of the same is respectfully requested.

CONCLUSION

Applicants believe all pending claims are now in condition for allowance and should be passed to issue. If the Examiner feels that a telephone conference would in any way expedite the prosecution of the application, please do not hesitate to call the undersigned at (408) 731-5875.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account 01-0431.

If the Examiner has any questions pertaining to this application, the Examiner is requested to contact the undersigned attorney.

Respectfully submitted,

those Mah

Date: 1 24 03

Thomas Malone Reg. No.: 40,078

VERSION WITH MARKINGS TO SHOW CHANGES MADE TO THE APPLICATION

In the Specification

Please amend the third paragraph on page 3 of specification as follows.

In one embodiment, the present invention provides an isolated growth factor polynucleotide comprising a nucleic acid sequence depicted in Figure 1B (SEQ ID NO: <u>02</u>). In one aspect of this embodiment, the isolated polynucleotide comprising a nucleic acid sequence selected from the group consisting of: (a) a nucleic acid sequence of at least 90 nucleotides that is essentially identical to a linear sequence of comparable length contained in the sequence shown in Figure 1B (SEQ ID NO:02); (b) a nucleic acid sequence of at least 90 nucleotides encoding a polypeptide that is essentially identical to a linear sequence of at least 30 amino acids contained in the sequence shown in Figure 1A (SEQ ID NO:01); and (c) a complement of (a) or (b). In another aspect, the isolated polynucleotide encodes a polypeptide comprising an amino acid sequence that is essentially identical to a linear sequence of comparable length shown in Figure 1A (SEQ ID NO:01). In yet another aspect, the isolated polynucleotide encodes a polypeptide comprising an amino acid sequence essentially identical to the entire amino acid sequence shown in Figure 1A (SEQ ID NO:01). In still another aspect, the isolated polynucleotide encodes a polypeptide comprising the amino acid sequence shown in Figure 1A (SEQ ID NO:01). The polynucleotide of the present invention can code for the whole or domain(s) of the growth factor, or a mutant, fusion or a functionally equivalent growth factor polypeptide. In a related aspect of this embodiment, the invention encompasses a method of diagnosing a pathogenic condition or susceptibility to a pathogenic condition that is associated with a genetic alteration in a growth factor polypeptide encoded by the claimed polynucleotide. The method comprises the steps of: (a) providing a biological sample of a subject containing nucleic acid molecules and/or polypeptides; (b) determining a genetic alteration associated with the growth factor; and (c) correlating the alteration with a pathogenic condition or susceptibility to a pathogenic condition.

Please amend the first paragraph on page 4 of the specification as follows.

In another embodiment, the present invention includes a polynucleotide sequence that is useful as a probe for diagnostic or research purposes. Preferably, the probe is between 5 and 100 nucleotides in length and may comprise any of the contiguous nucleotides shown in Fig. 1A (SEQ ID NO:01). Longer sequences may be used as probes depending on the type of assay used.

Please amend page 6, line 21 of the specification as follows.

Figure 1A (<u>SEQ ID NO:01</u>) depicts the amino acid sequence for the peptide encoded by polynucleotide A.ctg12831-000000.10.0.

Please amend page 6, line 23 of the specification as follows.

Figure 1B (<u>SEQ ID NO:02</u>) depicts the polynucleotide sequence of A.ctg12831-000000.10.0.

Please amend the first paragraph on page 19 of the specification as follows.

In a separate embodiment, the present invention provides an isolated polynucleotide comprising a nucleic acid sequence having at least about 90 nucleotides that is essentially identical to a linear sequence of comparable length contained in the sequence shown in 1B (SEQ ID NO:02). Preferably, the isolated polynucleotide contains at least about 90 nucleotide bases, more preferably at least about 150 nucleotides, more preferably at least about 450 nucleotides, and even more preferably at least about 1200 nucleotides. When the polynucleotide sequence is used as a probe, then it can also be shorter in length. For example, the sequence can be any contiguous nucleotides along the sequence shown in Fig. 1B (SEQ ID NO:02), its complement, or a variation of a few nucleotides. The length can be from 5, 13, 15, or 20 nucleotides to 25, 30, 50, 75, 100 or more nucleotides in length. In some embodiments very long sequences can be physically attached to a substrate that may be 500 to 5,000, or even 50,000 nucleotides long.

Please amend the second paragraph on page 19 of the specification as follows.

In another embodiment, the isolated polynucleotide comprises a nucleic acid sequence of at least 90 nucleotides that encodes a polypeptide essentially identical to a linear sequence of at least 30 amino acids depicted in Figure 1A (SEQ ID NO:01). Preferred linear peptide sequence is at least about 50 amino acids in length, more preferably at least 150 amino acids in length, and more preferably at least 350 amino acids. In yet another embodiment, the isolated polynucleotide may be any polynucleotide which encodes the polypeptide of Figure 1A (SEQ ID NO:01). In yet another embodiment, the isolated polynucleotide is a complement of any of the above mentioned growth factor polynucleotides.

Please amend the third paragraph on page 19 of the specification as follows.

These gene sequences can be identified, in whole or in part, by specifically hybridizing under moderate or stringent conditions to the exemplary polynucleotides shown in Figure 1B (SEQ ID NO:02). Alternatively, the invention sequences can be identified by their homology to published or known open reading frames, or pieces of genomic sequences using computer-assisted methods known in the art or those described herein.

Please amend the first paragraph on page 22 of the specification as follows.

Polynucleotides that correspond or align more closely to the exemplary sequences disclosed herein are comparably more preferred. A query polynucleotide of at least 90 nucleotides is considered to be essentially identical to a reference polynucleotide (e.g. sequences shown in 1B. (SEQ ID NO:02)), when the query polynucleotide exhibits at least about 80% sequence identity, more preferably at least about 90% identity, even more preferably at least about 95% identity using any of the above-mentioned alignment programs with the default settings. Likewise, a query polypeptide is essentially identical to a reference polypeptide of at least 30 amino acids, when the query polypeptide shares

at least 80% sequence identity, more preferably at least about 90% identity, even more preferably at least about 95% identity that can be discerned by the aforementioned programs using their respective default settings. When using Bestfit or any other sequence alignment program to determine whether a particular sequence is, for example, 80% identical to a reference sequence of the present invention, the percentage of identity is preferably calculated over a linear sequence of comparable length that is contained in the reference sequence. Typically, the upper limit of gaps in homology is set at 20% of the total number of amino acid residues or nucleotide residues in the respective reference sequence. The altered residues may occur at the amino or carboxyl terminal positions of the reference sequence or anywhere between those terminal positions, interspersed either individually among residues in the reference sequence or in one or more contiguous groups within the reference sequence. Allowable sequence alterations include but are not limited to deletion, insertion, translocation and substitution of individual residues.

In the Claims

Please amend Claims 1, 2, 6, 7, 8 as follows:

- 1. An isolated polynucleotide comprising a nucleic acid sequence shown in Figure 1B (SEQ ID NO:02).
- 2. An isolated polynucleotide comprising a nucleic acid sequence selected from the group consisting of:
- a) a nucleic acid sequence of at least 90 nucleotides that is essentially identical to a linear nucleotide sequence of comparable length depicted in Figure 1B (SEQ ID NO: 02);
- b) a nucleic acid sequence of at least 90 nucleotides encoding a polypeptide that is essentially identical to a linear peptide sequence of at least 30 amino acids depicted in Figure 1A (SEQ ID NO:01); and
 - c) a complement of (a) or (b)

- 6. The isolated polynucleotide of claim 2 wherein said nucleic acid encodes a polypeptide comprising an amino acid sequence that is essentially identical to a linear sequence of comparable length shown in Figure 1A (SEQ ID NO:01).
- 7. The isolated polynucleotide of claim 2 wherein said nucleic acid sequence encodes a polypeptide comprising the amino acid sequence shown in Figure 1A (SEQ ID NO:01)
- 8. The isolated polynucleotide of claim 2 wherein said nucleic acid encodes a polypeptide comprising an amino acid sequence essentially identical to the entire amino acid sequence shown in Figure 1A (SEQ ID NO:01).

Figure 1

Sequence Name:

A.ctg12831-000000.10.0

Figure 1A: SEQ ID NO: GI

MGKDFMSKTPKAMATKAKIDKWDLIKLKSFCTAKETTIRVNRQLTEWEKIFATYSFDKGL ISRIYNELKQIYKKKTKNPIKKWVKDMNRHFSKEGIYAAKKHMKKYSSSLAIREMQIKTT MRYHLTPVRMAIIKKSGNNRDMDEAGNHHSQQTITRTKNQTPHVLTHRWILQQSHWVTVL SDISELMHKTDRIVNLLMCMYLLTVDLDRLNDDAKRYSCTPRNYSVNIREELKLANVVFF PRCLLVQRCGGNCGCGTVNWRSCTCNSGKTVKKYHEVLQFEPGHIKRRGRAKTMALVDIQ LDHHERCDCICSSRPPR

Figure 1B: SEQ ID NO: 02

GCAAGATTCAAAATTGTTTTTGTGTTTCAAAATTTAAAAATTAAAATTTATCTCCTAAATTTT CTAAAGACATGTTTCATATATTTGACCATCCCTTATTTTGGCAAAGGATTTTAAGAGTCT CTATATACACATAGACATGAATATATTTCTGTGTGTGTTTTGTGCATATATAACCTCAAAC ACTATTATTAAATGCAATCCTATATTCTTAGGTATAGAAGTTGATGATATACCTTTCTAC TTGCCATGGCATTAACAAAGCAAGGCTGAGACTCAGCAACCACTTGTGTTCATTGCATTG CAGGCTAGTAGTTAGTTGGTTGCTGGTAGGAAAAGGGTCTCTTATCTCACCCTCCTTAA ACTAAAGGTTCTTTCAGGCTTAATGTAAGGATGTGCACATTCTCTTATCGAGGTGGTCTT GAGCTGCAGATACAATCACATCGTTCATGGTGATCCAACTGGATGTCAACTAGAGCCATG GTCTTAGCTCTACCCCTCTCTTGATGTGGCCAGGCTCAAACTGTAATACCTAGGACAAG TACCTTTTTGACAACTAGTTCTTAGCCCTTTGAGAACCCAACAGAAGCTATGGGCTTGCT ATTAGAATGCACACGTTGCTATTAGAATGTACACATTTTTCAAATAATTGACTCCCTGAA GTGGAGGAATCAATTGATCCCAGAGTAATGCCCAGCATAACTTACCTGAAGTACCCAGAT GATTTCATGTGTCTTAGCAGGTATTTATTAATAGCTTTCTAAGGGCCTGCTTTGGGCCAA GTACTGTTCCAAATATTATCGTAAAGATCCTTCTGACCAAGGCATGTGTTATAGATGAAT ACAATACTTGAGCATATTATTAGCATGGAGAGGAAAATGAATACAACCATGAATAAAATA TGCTGGTATATCTAAATCTTTGGTTGAAGTAAAACATGTTGCCCTGGAGTTGCTGGCAAG ATGGCCGAACAGGAACAGCTCTGGTCTGCAGTTCCCAGCGAGATCAATGCAGAAGGCGGG TGATTTCTCCATTCCCAACTGAGGTACCCAGTTCATCTCACTGGGACTGGTTAGACATTG GGTGCAGCCCACGGAAGGTGAGCTGAAGCAGGGTGGGGTGTCCCCTCAGCCGCGAAGTGC AAGGGGGTGGGGGATCTCCTTCCCCCAGCCAAGGGAAGCCATGAGAGACTGTACCAGGAG GAATGGTGCACTCTAGTCCAGATACTGCACTTTTCCCATAGTCTTTGCAACTGGCAGACC AGGAGATTTCCCCCAGTGCCTATGCCACCAGGGCCCTGGGTTTCAAGCACAAAACTGGGC GGCCATTTGGACAGACACCGAGCTAGCCGCAGCAGTTTATTTTCATACCCCAGTGGCGC CTGGAATGCCAGCAAGACCAGTCACTCCAGGGATCCAAGTGGTCTGGCTCAGTGG GTCCCACCCCATGGAGCCCAGCTAGCTAAGATCCACTGGCTTGAAATTCTCCTGCCAGC TGCTGAGGCTTGAGTAGGCGAGGCGGTTTTACCCTCAAAGTGTAAACAAAGCTACTGGGA AGTTTGAATGGGGCGCCCACCGCAGCTCAGCAAGGCCGCTGTGGCAAACTGCCTCTCTAG ATTCCTCCTTTTTGGGCAGGTCATCTCTGAAAGAAGGCAGCCCCAGTCAGGGACTT ATAGATAAAACCCCCATCTCCCTGGGACAGAGACCTGGGGGAAGGGGTGGCTGTGGGTG CAGCTTCTCAGACTTAAACATTCCTGCCTGGAGGCTCTGAAGAGAGCAGCGGATCTCCCA GCACAGCATTTGAGCTCTGATAAGGGACAGGCTGCCTCCAAGTGGGTCCCTGACCCCC ATGTATCCTGACTGGGAGACATCTCCCATTAGGGGCCAATAGACATTTCATACAGGAGAC AGGGTCTGGAGTGGACCTCCAGCAAACTCCAGCAGACCTGCAGCAGAGCGGCCTGACTGT TAGAAGGAAAAGTAACAAACAGAAAGGAATAGTATCAACATTAACAAAAAGGACATCCAC

ATGGGAAAAACCAGTGCAGAAACACTGAAAATTCCAAAAACCAGAACTCCTCTTCTCAAC CAAAGGATCACAACTCCTCGCCAGCAAGGGAACAAAACCAGATGGAGAATGAGTTTGAGG AATTGACAGAAGTAGGCTTCAGAAGGTGGGTAATAACAAACTCCTCCGAGCTAAAGGAGC ATGTTCTAACCCAATGCAAGGAAGCTAAGAACCTTGAAAAAAGGTTAGATGAATTGCTAA CTAGAATAATCAGTGTAGAGAAGAACATAAATGACCTGATGGAGCTGAAAAAACGCAAGAC AAGAACTTCATGAAGCATACACAAGCTTCAATAGCCAAATCGATCAAGCAGAAGAAAGGA TATCAGTGATTGAAGATCAAATTAATAAAAGAAAGTGAGAAGACAAGATTACAGAAAAAA GAGTGAAAAGAAACAAAGCCTCCAAGAATTATGGGACTATGTGAAAAGACCAAATC TACATTTGATTGGTGTCCCCCAAAGTGATGGGGAGAATGGAATCAAGTTGGAAAACACTC TTCAGGGTATTATCCAGGAGAATTTCCCCATCTATCAGGGCAGGCCAACATTCAAATTCA GGAAATATGGAGAACACCATAAAGATACTCCTCGAGAAGAACAATCCCAAGACACATAAT CTTCAGATTCACCAAGGTTGAAATGAAGGAAAAAATGTTAAGGGCAGCCAGAGAGAAAGG TTGGGTTACCCACAAAGGGAAGCCAATCAGACTAACAGCGGATCTCCCGGCAGAAACCCT ACAAGCCAGAAGAGAGTGAGGGCCAATATTCCACATTCTTAAAGAAAATAATTTTCAACC CAGAATTTCATATCCAGCCAAACCAAGCTTCCTAAGTGAAGGAGAAATAAAATCCTCTAC AGGAAGCACCAACATGGAAAGGAACAACTGGTACCAGCCACTGCAAAAACATCCCAAATT GTAAAGACCATTGATGCTATGAAGAAAGTGCATCAACTAACGGGCAAAATAACCAGCTAG TGTCATAATGGCAGGATCAAATTCACACATAATAATATTAACCTTAAATGTAAATGGGCT AAATTCCCCAATTAAAAGACACAGACTGGCAAATTGGATAAAGAGTCAAGACCCATCAGT GTGCTGTATTCAGGAGGCCCATCTCACATGAAAAGACACACATAGGCTCAAAATAAAGGG AGTCTCTGATAAAACAGACTTTAAACCAACAAAGATCAAAAGAGACAAAGAAGCCCATTA CATAATGGTAAAGGCATCAATGGAACAAGAAGAGCTAACTATCCTAAATATACATGCACC CAATACAGGAGCACCCAGATTCATAAAGCAAGTTCTTAGAGACCTACAAAGAGACTTTGA CTCCCACACAATAATAGTGGGAGTCTAAATAAATAGACACCTTTAACACCCCACTGCC AATATTAGGCAGATCAATGAGACAGAAAATTAACAAGGATATCCAGGAGTTGAACTGAGC TCTGGACCAAGCGGACCTAATAGATATCTACAGAACTCCCCACCCCAAATCAACAGAATA TACACTCTTCTCAGCATCACATTACACCTATTTTAAAATTGACCATGTAATTTTAAGTAA TGCAATCTATTTAGAACTCAGAATTAAGAAACTCACTCAAAATCACACAACTACATGGAA ACTGAACAACCTGCTCCTGAATGACTACTGGGTAAATAACAAAATGAAGGCAAAAATAAA GATGTTCTTTGAAACCAATGAGAACAAAGACACAATGTACCAGAATCTCTGGGGCATATT TAAAGCAGTGTGTAGAGGGAAATTTATAGCACTAGATGCCTACAAGAGAAAGCAGGAAAT TTCAAAAGCTAGCAGAAGACAAGAAATAACTAAGATCAGAGCAGAACTGAAGGAGATAGA GACACAAAAAGCCCTTCAAATAAATCAATGAATCCAGGAGCTGGTTTTTTGAAAAGATCA GCAAAATAGACCACTAGACAGACTAATAAAGAAGAAAAGAGAGAAGAATCAAAGAGATGC AATAAAAATGATAAAGGGGATATCACCACCGATCCCACAGAAATACAAACTATTATCAG AGAATATTATAAACACCTCTATGCAAATAAACTAGAAAATCTAGAAGAAATGGATAAATT CCTGGACACATATGTAGCCTGTATGGACCTTGGGGGGACAGAACAAAAGGGGGTGAATGCA GAAATAAAAGACAAAGACAAAAGAGTATGTTTGGAAGTAGGGGTCAGGGGGCAACTTGCC AGCGAGAGGGTGAGTTGGAAGAAGAGGTCAGCTGTTAGGTCCAGAGTAGGCCTGCAAGAC TGCATTCCTCAAACAATAGGCTCTAGATGTCCCAGTAGATAACCTCAAGGAGCCAGTGCC TCTGTATTCACGATAAACAGTTTGCTGTTTGATCAAGTAGCCTCCAGTGGAATGCTGAGT TGGTCATGATCCCTTTGGCCTTTTTGGCTCCCAAAACACATACACCCTCTCAAGACTAAA CCAGGAAGAAGTCAAATCCCTGAATATACCAGTAACAAGTTCTAAAATTGAAGCAGTAAT TGATAGCCTACCAACCAAAAAAAGTCCAGGACCAGACGGATTCACAGCCAAATTCTACCA GAGGTACAAAGAGAGCTGGTACTATTCCTTCTGAAACTATTCCAAAAAAATAGAAAATGG GAATCCTCCCTAACTCATTTTACGAGGCCAGCATCATCCTGATACCAAAACCTAGCAGTG ACACAACAAAAGGGGAAATTTCAGGCCCATATCCCTGATGAACATTGATGTGAAAAATCC TCAATAAAATACTGGCAAACCAAATCCAGCAGCACATCAAAAAGCTTATCTACCATGATC AAGTTGGCGTCATCCCTGGGATGCAAGGCTGGTTCAAAATATGCAAATCAATAAATGTAG GCCATCACATAAACAGAACCAATGACAAAAACCACATGATTATCTCAATAGATGCAGAAA AGGCCTTTGTCAAAATTCAACAGCCCTTCATGCTAAAAATTCTCAGTAAACTAGGTATCG

ATGGAATGTATCTCAAAATAATAAGAGCTATTTATACAAACCCACAGCCAATATCATACT GAATGGCCAAAAACTGGAAGCATTCCCTTTGAGAACTGGCACAAGACAAGGATGCCCTCT CTCACCACTCCTATTCAAGATACTATTGGAAGTTCTGGCCAGGGCAATCAGGCAATAGAA AGAAATAAAGGGTATTCAAATAGAAAGAGAGGAAGTCATATTGTCTCTGTTTGCAGATGA CATGTTTGTATATTTAGAAAACCCCATCGTCTCAGGCCAAAAACTCCTTAAGCTGATAAG CAACTTCAGCAAAGTCTCAGGACACAAAATCAATGTGCAAAAATCACAAGCATTCTTATA CGCCAATAATAGACAAACAGAGAGCCAAATCATGAGTGAACTCTCATTCACAATTGCTAC AAAGAGAATAAAATACCTAGGAATACAACTTACAAGGGACACGTAGGAACTCTTCAAGGA ATGCTCACAGATAGTAAGAATCATGAAAATGCCATACTGCCCAAAGTAAATTATAGATTC AGTGCTACCCCATCAAGCTACCATTGACTTTCTTCACAGAATTGGAAAAAACAACTTTA AATTTCATATGGAACCAAAAAAAGAGCCCACAGAGCCAAGACAATCTTAAGCAAAAAGAA CAAAGCTGGAGGTATCATGCTACCTGACTTAAAACTATACTATAAGGCTACAGTAACCAA AACTGCATGGTACTGGTACCAAAACAGATATATAGACCAATGGAACAGAACAGAGACCTC AGAAATTACACTGCAATCTACATCCATCTGATCTTTGACAAACCTGACAAAAACAAGCAA TGGAAAAAGGATTCCCTATTTAATAAATGGTGTTGGAAAAACTGGCTAGCCATATGCAGA AAGCTGAAACTGGATCCCTTCCTTACACCTTATACAAAAGTTAACTCAAGATGAATTAAA GACTTAAATATAAGACATAAAACCATAAAAACCCAGAAGAAAACCTAGGCAATACCATTC AGGATATGGACATGGCCAAAGACTTCATGACTAAAACACCAAAAGCAATGGCAACAAAAG GTCATCAGAGTGAACAAGCAACCTACAGAATGGGAGAAAATTTTTGCAATCTATCGATCT GACAAAGGCTAATATCCAGAGATCTACGAAGAACTTAAACAAATTTACAAGAAAAAAACA ACCCCGTCAAAATATGGGCAAAGGATATGAGCAGACACTTCTCAAAAGAAGACATTTATG CAGCCAACAAACATATGAAAAAAACCTCATCATCATTGGTCGTTAGAGAAATGCAAAACA AAACCACAGTGACATACCATCTCATGCTAGTTAGAATGGTGATCACTAAAAAGTCAGGAA ACAACAAATGCTGGAGAGGATGTGGAGAAATAGGAACACTTTTCCACTGTTGGTGGGAAT GTAAATTAGTTCAACCATTGTGGAAGACAGTGTGGAGATTCCTTAAGGATCTAGAACCAG AAATATCATTTGACCCAGCAATCCCATTACTGAGTATATACCCAAAGGAATATAAATCAT TCTATTATAAAGACACATGCACACATATGTTTATTGCAGCACTGATCACAATAGCAAAGA CTTGGAACCAACCCAAATGTCCATCAGTGATAGACTGGATAAAGAAAACATGGCACATAT ACACCATGAAATACTATGCAGCCATAAAAAGGATGAGTTCATGTCCTTTGCAGAGATATG GATGAAGCTGGAAACCATCATTCTCAGCAAACTAACACAAGAACAGAAAACCAAACACCA CATCACACACCAGGTCCTGTTTGTGGGTGCGGGACTAGGGAAGGGATAGCATTAGGAGAA ATACCTAATGTAGATGACGGGTTGATGGGTGCAGCAAGCCACCATGGCACATGTATACCT ATGTTTTTATATATTGTTAACATATATATCCTTTACCATTTAAAACAAATCAGGTTCC ACTAAAATCTTTGTATATTAATACCTGTGTATCAATACAGCATTTCTTAAATCAATAAGT ATATCATTAATTTTTAAATTCATAAGTTTAAACATAATTTCTTAAATTAGTAGTTAAATA GAAGCCAACCCTTCTTCCCTGCAGTGGCCTTCATTTAGTGAAATATTAGCTATTACATAG ATTTACTTTATGTTCTTAGATCCCGGTTAGCCTTTATTTTTGATTTTGTCCCATTTTCCT TTTAGATTCTAAACTTGGTCATGGCACCATTAAACAATTCTATAGCATTTTACAGTTTTT TGGTGGAAAAGGTATCATTATGCCCACTTTATACTGAGATTCTAAAGGAGGATAAGTACC TTGTCCAGGGTCTTCCCCTGACTTGGACCTGGGACCAGGACCTGGGATCAGGACATTTAA GCTCCTAGCATATTCTGACTTGAGGCCTCTCTAACATGCCTTCAATTTCCTTTTATGTCT CAAGGGTGTGTCTGGCTCCCCATGTGAACCGGCAGGGAGACCTGTGATGCTTTGCTTGAA CTTTTGTCCTAGGTGAAAGTTAGATGCCTGGAGTCCCCTGCACTCATGCATCACGGTCTG CACATTCCTTTCATTTAGAATTTTGCCATGCTGTTCCATAGACGGTCCAGTGAGGCAGGG AATAAATCACTGCATTTGTTTAATGTTCAATCAAGTTAGGGCACTCTGCTGATGCAGAAT GGAAGATGGAGATCTGTTTGTAGAAAAACTTCAAAAGACTTGTCAGTACAAAGTTGGCAG GGGGTGGAGGAAGAATACCCTAAGAAAGTTCTTTAGGGAGACAAAGTGTCAGAAATTTT GATATTGGTAAAGCTAGTCCAAAGGCCAGTTTTGATAGTTGATTCTATTATCATCTCCTG CAATTCTATTGCACTTACAATAGGTACCTTGGAAGGGGTTGGGGTTTGGACTCCCATAGC TTTGCCAAGAATTTCTCCAAGATGAATTAATTGCTATTTTCCAAGACTATCTGGCCTGTA

AAAGAGATTTGAGAACTAGGGGATGCAGGAGAGGGAAATTATTTCTAAGAAGCTGAGCAT ATGATAAATATTCCTTGTTTAAAGAAGACTGTTATCAAGGCCTAATAATTTGTGATGACT TGTGCTTTGGGATAAGAGCAAGAGCCTGGGCAGTTTTTCTAACTGGTCTTCTGATTGTTC AGGGATTTTCTCTGTGTTTTATATTAAGCAACGTGAGCACGGTATATATGTGTTTTTGCTG ATAAGAAGAGAAAATGAATTGGCAGACACCTTTTCCCAGACAAGACAGGAGAGCACTAT TTGAACAAAGTGGAAATTGGACTGCCTTACTGGATGATCACAGCACTGATGTTCAAAGCT GGCTGATTTGAGGGCATGTAGAAAAATGAAAAGCCTTTATCTGAGAAAGCAAACTGGCGG GGGCACTTGTTAATAGGTACCCTCACACACACACTTTCTTATTTTCTGAGCTATGATTCAC AGCTGGAAGCACACCAGAAATAACAAATCCACTGGCGGCCAACCAGCATTTCTTAAC ACCTATGGGTGCAAATGGGGATCTTGACTCCTCTCCACTCTGGAAAACCACACAAAGCCA GGGAAACTTGACGTCTACTAAATGGAGTGTGACTGAGCCAATTGGTGGGTTTCATACCAC CATACAAAATCAAAGATGCTCAGTTTTGCAAATTACCTCATCACAAAAGATATTTAACTA CAGTTACTCACCTTGTTGCCAATAAACGTCTGAATAAATCTTCACCATAAAGCTATTTAC ACTAATAAAACAATACCAGGCAGAAAAGCTATCTGCTGAGTCTGGTTCTTGTTTATTGAG AATATAAAAAAGGCTGTTAAGGCTTGTAACAGTTCTCAAATTAATGGCTGACTTAGGAA CACAAGTACGTATTTCAGGACAAATGCATTATATAAACCCAAATCATTAAGAGTTTAAGA TTCTTCCTTTTTTTTTTTTTTTTTTTTTTTGAGATGGAGTTTCAGTCTTCTTGCCCAGGC TAGAGTGCAATGGTGTGATCCCGGGTCACTGCAACCTCCACCTCCCGGGTTCAAGTGATT CTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCACGTGCCACCACGCCTGGCTAA TTTTTGTATTTTAGTAGAGATGGGTTTCCCCACGTTGGCCAGGCTGGTCTTGAACTCCT GACCTCAGGTGATCTGCCTGCCTCAGCCTCCCAAAATGCTGGGATTACAGGCATGAGCCA AGGAAAAAAAAGCTTCTTTTGATCTCTTTCATGCTTATAGCCTTTATAAAAAATGT ACACAGAGTCAATATTTTTAAGGGATGCTAGTGAATTATTCTGAAACCTAAGTGACTACA AGCAAAAATATCTTGAGAAGGGATAACATATTATTTCCTCCCTGAGTAATTACTCAACCT GCAGGCAATAATCACAGCAGTGGCTGGCATTGTAACAGAAGGACTGATATCAAGTCCCAA GACACAGTACTCAGTTAAAAAGACATAAATGACAAACAGCTCAACAGTGTTATATTAAGA AGTTAAGCTTGAAGGTGACAAAAAGCTGGGTTATAGTGGGAGTTTATAACATGCTCATGA ATTTTGAAAATGCAATCATGATATCTGTGCATATTTACTTCAAATAGATGCGTTCTGTGA GACTCTAGGGTTACTATGAGGTGTACTCAGTTGCAGTTTTAAACTTTACAGAACTAAATAG TTAAATGATTTTGACAGCACCTTAGAGGATTATTGACTACATGTTCAGCCTACCAATTGC AGAAAACATAATGGAAAGCCTGGGTGGGCACTACATTTCAGAGCATGGCATTAGCATTGG GTATCACTCATGACACAGATGGGCCTTGTCTGCTTGGGGAGTACCTTGCCCCATGTGGCA AGTTTGCCGCTTTGGCAGGAGGCCTGATGTGAAGCTAGATTGAGAAGGGAGAAGGTGTG CAGTTTGTAATACTTAAACAAGGAGTTCACTAACTTGTAAGTGAGTCATCAGGGAAGAAA GTACTTTATAGTCTTCAGATGCCTTCATTCACCCAGTATCCCCAGGTGGTAAGAAGCACA TGTGTTATCATTGCCATTGTCAAGATGAGTGAATTAACTTTTTTATAAGCAGTCTATAAA CATTTACTGTTCTGGATCATATCTTTATTCTTTTTGCATTTACCTAGCATTTCAACCACC AATTTGTTTTTATTCCTTACACAATTTCATTAAGATTTTGGGGGCCAGGATAAAGTGTAAC AACAGATAATGAATATGATGTAATTTCAGGTTTGCCTGGGAACTCAAAATTGTAGGTTAT TATGGGGATTAAGTGAGGAAACCTGAGGCCCTGGGAAGTTTTAAGTGGCTGGTCCTCAGT TGCCCCTCCATGTGGCAAAGCTGGAACCAGAACCCACATCTTTTCTAGTCCTGCAAGTTT TCTGCTCTATTGCCCTCTCTTGGTAGGAAAACATCACAGACCATGAGGCTTCACTTAAAG GTGGAGAAAGGACAAGAGGCAGAGAGACTCCACAAGTTCTAGCTATGAGGTTTCCAAAAA AATAACAGAAAAGAGATTTTCTTGACTTTTATTATGGTTAGGTATAATCATGACCCAAAA TGGTCTCAATTTGAAAATTTAGGTACTTTTTTTTCAATAACAGACGTTTCAAACATGTAA AAACAAAGTACTATTCTTTTACCTCAAATCTGAAGGTCAACAGTGTATTACTCTAACCTC ATATTTCATGTATAAATACAGATGCTCGTTGACTTATGATGGGGCTATATCCTGATAAAC CCATTGGAGGTTAAAAATATTTTAAGTTGAAAATGCATTAATACCCCCCCATAAACCCAC TGAAAAGTAAAAAAAAAAAAATCTAAATCTAACCATCATTGAGGATAATCTGTACCAAT TTATTAATACATCTCCTAACTCTTAAACTGTGATAAAATGCAAATGTTTAATACAAAATT CTACCTTAGAACAAGAAGAAGTCATTTTTTTTTTCATTTTGTCTAGATGTCTAAGTGATTC

TAGATGCTATAAATGTGCCAGAATCAGAGATAGGTATAGGCTTGTGCCATTCAACAAGGT AGTCACGGCCTTGTGTGGTAATTTAAATTTCAATTAGTTAAAACTAAAATAAAATTAAAAA TTTAGTTTCTATTTGTGCTACACACATTTCAAGTGCCCAACAGCCACATGTTGCTAGTGA CTACCATATGGAACATTGCAAATATAGGTTATTCCTATCACTACAGGAAGATCTATTAGA CAGTGCAGGTGGTTAGGTCAAGCATCCTGAGAAAATTATGAGAGGAAGAACAGGGAAAT TAACATCTATCTTTATCTCTTTGATGCTTCCTATGTTTTTGGCTGTTGACTAAATGGATA CAGCCAGGGCACCAAATCATGAAAAACAGTTGAGTAATAATTTAATAGGTCACTATACTT TTAGGAAATATCCTCTTCCTTCATTATACACTATCAAGAGAGAAGAGAACTGAAATAATAGT TTCTTCTAATTGTCTACACAATACGTTTTTCTGGAATCCTCCCTTTAACAAAAATCACTA CCCAAATTATCTTTTATATTCTATGATGGGGTTCAGGACACTGTACTCCCAAATGTTTTA AGCTGAAGGAATTTGAGAAAACAAGAAAAGCAGAAAGATCACTCTGACCTTCCCCTCACC CTCCATCCTGAAGGAAGTCATAAAACCTAGGATTTTCTGACCTTCCCATGTAGCAAGTCA CCTTTTTGTTTGAGATGTGGTCTTACTCTGTCACCCAGGCTAGAGTGCAGTTGCATGATC ATGTTCTGCTGCAACCTTGAACTCCTGGGCTCAAGCAATTCTCCTGCCTCAGCCTCCCAA GTAGCTCAGACCACAGACATCCTCCACACTTGGCTACTTAAAAATAATTCCTTTTTTT TATTATTTATTTTTTTTTTTAGAGATGGGGGGGTCTCGCTATGTTGACCCGGTTGAT CTTGAACTCATAGCCTCAAGGGATCATCCCACCTTGGCCTCTCAAAGTGCTGAGATTACA GGCATGAGCCACTGCTCCTGGCCTAAGAATCCTTATCTCCAAAGACAAAGGTAGAACAAA TAAGAATCTGAACAAACAGGCCTTGCTAATTTTCCCCAGTTTATTACCATTAGATCATAC TCTGCCCTATCATATTTCTCCACACTATCCACACTTTATCAAACTTACTGTAAAAAATT ATCAGGTTGAACCACTTTTTTGGGTCTTCCTTACCAAGGCCTCTGTGTCACGTAAAACAT ${\tt CATGAACCTAGGAAGGGTGGAAGAAAGGTATTTTCCTACTCTATATCTAGTATATTCC}$ AAGAAGCATAGAATGATTGTTTAGAAAGAGGAAAAATACTTCAACAGGGTACCTACAAAC TTTTGAGAGCAAGAAATAATAAAGACAGTCACATTTTACTGCACAGTGAAAACCGCTCAA AACCCTACAGGACAACTAATATGACCTGTGAAAAAAGCAATATTAGCTTCGTTAGAAGCT TTCCAGTTTCCCAGATTTAAATTCCTTAAGGTTGAGCACTGAAATATTTGTGGAGAATCA CACAAGCCTGTTATGTGACAAGGTCTCATTACCCCCTTAAGGGTGCTCATCTTTCACAGA AACTCATTTCACATCTCATCAGTTGCAACCATGAGCTGGGGAAACTGGTTTCTCATTTCT CAGAGGTAAGAATACAGACACAGAATTCAGAATAAAGGACTAGAATTTTTCCCTAATGAG ACTAGGCTCAAGCAACCCCCACTTCTGGAAATGGAATAAGCCTTTTGCTGTTTTCCCACAG GGCACTTGACAGTGATAATTGTGACACATCTCAAAGGTATTTCAGGAGTCTCAGGGGCAT CTTTCATCCAGCACTTGACAGAGTGATTTTATAGAGCTTTGCAGAGTTCTAGAAGTAAAA ATATTAGGACACATGTCTTAAAGAGATGCTTTAGATACAGTTTCAAAGGATGCCAATGTT TCAAATCCACTCATGCGACTGAACAAGAGATCAAGAGTTTTCCCCTCTACACATTAACT GAGAACAGAAATTTGCAAGTAATGGTTATTGTGTAGAGAGATAAGAAAGGAACTAAGAGG TGGGGGTCTATGGTTCACTCTGCTCTTCCCACAATAAGTAATTTTTTTAAATCAAGCTAAA AATTCTATCTGAGCATAGAGTCAAGATAAAAATAAAGCACTCCACAAATACATCAAAGTC CTGACCTTGAATGTTCTTCCTCACAGTTACTACTAGGTAGAGACCTTGTCACTTCCTAGA TTATTTTAACTATAACCTGATTACTGCATTCTGCATTTATCCTTGGGGTATGATTAAAGG TTATAAAATTCAGGTTCTTAGAAGTGAAGGACAACATCCAATCTAGAGTTCATCAGTTCA TACAAAAATAAAACACAATGAACATAGATGATGATAGCATTCTCTAGATATGAGAACATTTTT TTTCCTTTGAAAACAGTGGGGTGGATCAAGCAATTCTTATGACTTAAGAAAATATGTTCC CCTACATTTTCCAAGTTGAAAATATCAATTATTACATACTCATTTTTTGCTTAATCCAGAA GTTACCTCCTAACTTACTACGATTTTTGTGTTGTTTTTCAGAATAGAAATCAAAACCAAAA CACCACCACCACAAAAAGCCTCCAAAAAACAGTTTTACAAAGCTGGAGATTTTGTTTA GAGAGAACTACCTATTCCTTTGTTGTGGTGGACACTTTTTAAAAATTATTATTATACTTT AAGTTGTGGGATACTTGTGCAGAACGTGCAGGTTTGTTACGTAGGTATACACGTGCCATG GTGGTTTGCTGCACCCTTTAACCCATCACCTACATTAGGTATTTCTCCTAATGCTATCCC TCCCCCAACCCCACCGACAGCCCCCAGTGTGTGATGTTCCCTTCCCTGTGTCCC AGTTTGCTGAGAATGATGGTTTCTAGCTTCATCCGTGTCTCTGCAAAGGACGTGAACTCA TCCTTTTTTAAGGCTGCAAAGTATTCCATGGTGTATATGTGCCACATTTTCTTTATCCAG

TCTATCACTGATGGGCATTTGGGTTGGTTCCAAGTCTTTGCTATTGTGAATAGTGCTGCA ATAAACATATGTGTGCATGTCTTTATAGCAGAATGATCTATAATCATTTGGTATATAC CCAGTAATGGGATTGCTGTGGACACTGATGGAGGAGCAACTCAAACAGTAATTCCTAACAA TGATGTTTGCTTCATATTTTAGTTTATATTTTAAAACATATTTCTGCATGATGTTTAACA TCTTGCAAAATATATTTCATATGCATTATTTTATTTGACCCTCAGAGCAACTCTGGAAGG GGTTATCTGATATTAATTTTTCAGTCCTATTTAAATATGTGAAAACTGAGTCAAAACT TTAGTGACTTGCATGTTTTCCACAATAATAAAGTAATTAGAGCTGCTGCCTATGTCACG TGTAATTTTTTTTGAGATGGAGTTTCTTTTACCCAGGCTGGAGTGCAATGGCGCGATC TCAGCTCACTGCAACCTCCGCCTCCCGGGTTCAAGTGATTCTCCCGCCTCAGCCTCCTGA GTAGCTGGGATTACAGGTGCCTGCCATCACGCCTGGCTAATTTTTGTATTTTAGTAGAG ACGGGGTTTTGCCATGTTGGCCACGCTGTTCTTGAACTCCTGACCTCAGGTGATCCACCC ACCTCGGCCTCCCAAAGTGCTAGGATTACAGGCGTGAGCCACTGCGCCCGGCCTATCTTT TATGCTCAATAAAGTGCTATATATTACTAGTGATAAGAAAAACCATAGACCCTGGAACCA GTGGATTGGAGTTGGAGTCCTGGCTCTGTGATTTACTGACCAGGCCATGCTGGCCAACTT AAGCAATAAATGCCATTGTTACTATTATTAAGGTTATTGTGCTCTTTAAGTTTTTGTTCC TCCTATATTCTTTTACTTTTGTCTATTTTTGCATAATCCAAGAGCTGATTCCCTGAGTAG CACTTAATAATAGTTAAAATAAACTGAGCATTTCCGGTTGAAACATACTTCATATTTAGA AAATAAAAAGATCTTTGACAATTTATATTTTGCTATCTTTATTGTGCCAAATTTATTAAA TGATATAATTGAATTAAGGTTTTGCTTATGAGATTGTGCCGTCATATCCTGTAAATGAAT AACATCATATTTCTCTTTTTTCTGTCTTTCTGCAAGTAGGTCAAGCTCTGAAATTACTG TATCACATATTTGATTATATATTCTAACAATGTTGATGTTGATCCACATGGTGTATTGTT CAAATTAGAAAAAACAGTGCCTTCGTCAGGATAGGATTAACCTGTCATCAGGACACTTGG TGTGCAGTGAACAACCTGAACAACTGTATGCAATGGCCCTGTCTTCCTGAATCCTATAGA TTAAGCATTGCAACAAGAAATCTAAGAATGACATACCTCATGATACTTTTTCACGGTTTT CCCTGAATTGCATGTGCAGGACCTCCAGTTGACAGTTCCACAGCCACAATTTCCTCCACA GCGCTGCACGAGGAGGCAACGTGGAAAGAAGACCACATTGGCCAACTTCAGCTCTTCTCT TATATTGACCGAGTAATTCCTGGGAGTGCAACTGTAACGCTTGGCATCATCATTGAGCCT ATCCAGGTCAACTGTAAGCAAATACATGCACTGTGTAAGCAAACACAACAGTAAGCACAA TTGCTCAGCATGTGTTTTGGGGAATAGAGTGGGAAGATTCTGTGAGGACAACTTTAATCC TGGGATTAAATCCATCCTCAGGCTCTCAATTACTGGGAACCTAAAGTAAAAGACCTAATT TCTCTCTTGATCCCATCTACCCTTTGAAAATAACAACAAAAACAAAACAAAACAAAAACC TTGGCTAAAATTCATGTCTTGGTTCAAATTTCCTTGCATCTTTTTTATGCAAAAAAAGTT CAGAGGAAAGAAATGAAACATTTGGCAAATTAAAATAATTGCCTTTATCTTCAAAAAGA CAAAATAAACTGCTTCTTCATTCTAAATAAATCCTGACTCTAAGCCATCACTTAAATATA ATTTAAATTATATCTAGGACACATTAGAGACAACCACTGTATTATATTTACCTGGCAGTG AAATTTCACACATAAATGTAATAAAGAAAAGGGTTTTAGTTTTATTTTTAACTTCAAAGT TAATCAACATGTTAGAGAAAATGATTTTTTTGTGTGTGAATATGGTGCATATTTGTGCAC TGGGTCCTAGATGCCAGTATAGCATAGTGGTTAAGTGCTTTGGAGCCGCAGTAAAGTTAC AACTGCCTTCAATCACATCATGGCTATGTTTCCTTTTAGTTGGAAAGTTATTTAATGGCT CTGAACTTCTGCTTCCTCATCTATAACATGTAATCATTTGAAGAATTGAATGTAACGTGC CTGCACTCAATGCCAGCTATTCTTACTAATCTTGATTCATCTGAATCTCCCCCTCTCACA TTCTTTTCCTTTAAAGTCAAATGGACAAAATTTAAAAATATACTACGTCTTTCTCCCTCT TTATGTTTTCTTCTTTGGACATTATATAAATGATTATCAAGGGATATGGTCAGTGGGACT TCTATGAACTAAAAGCACCACAATATTTTCAAAGCTAAGTCATAAATATTTACTTGAATT TCACAAGAACACAGTTAGAAGCAAGTCCTTTTGTCTGCACAGAACCCACCACCCTTTCCC AATGCACGCCCTTGTGTGCACCAGGCCACCACAGAAGGAATCCCATGAATGTTAGGCAGT TATCACCATGTTCATTCTAAACTCTAGCCCTGGTAAATGTCTTAGGCTTAAACTGAAACT GCTTAAGGAGAAGAAAAAAAGCCTTTGGGAGCAGAGGTCAAAAGTCAAGGACAGTG TCAGTAGAATGCATCTAAGGAAAATTGCAGGAACAAGTGTGGACCATGAGTCCACTAACC GCATCCCTGTTTGTCTTTTATATCTACAACTGTGCTTTGATTCTCAAGGGCAGGGATTT

TCACTGTGCATAATTTATTGCTGTTTTTTTTCTTCCTTTGTAAAGACATGTCATAACTTTA GCTATAATCAATCCAGATTTAAATTGAATGAACTCTGTCTTGGGAAAGGAACCATTTTAT TGCTGCTAAAGCCCTGAAAATAACTGCAAGCAAAGCAGAAAGGATTACATAAATGGATTA AGAAGTGCAGCAATCATCCATTACAAGTGTCACCTTGAGATAAATACTGATGCTGGCCTG TGCATTCCTGGGCTTGTGAACAGGGCTGATGCAGAGGGCCAAATCTGCTGCTTGTGATAA TGGGAAGATATTTGTCTAACACGGAGGACTAAAGAGGTACAATTAGCAGGAAGGGATCGT GATGTGTGAGAAGGCAGAGGGGACAGGGCGCAAGCGGCAACACTGAGTCTCTGCTTTCG TTCAGCCCTCTGCTGAACTATGTCATAACCTTACAGATATGACTACATTTAGTTGTTCCC CACCCATTTCAAGTGAGTATTATTTGCTAAGAGTTAACAGTAAATGGTAAAACTGGAATT GAAGCCTTTCCCCCTTTTGCTCCATAGTCTCTGTCACTTTAAGCAGAATAGAGGGATGGT CAGTAAGCCATTAGTTGAAGGAAGAAGACCAGTGTTATGAGGGCTGTACTGGACTTTCCT GTCTGATGTTGAACCAGGGTTGGGTGGAATGGCCACATCCTTATCTTCAGAAGACACC CAAGCCAAAGTACAGCATGCCTTCCCTATAGGAATTCCAATAAACTCCAAAGTGCCCTCC ACAAACCAGGAGAAGGCATGTAAGCCTCATTCTATTTGAAACCAAACTCCTCACATTGTA TAACTCTTTGACTAGCATTGGTTACTTTCATTTCTTACTCACCATGAGGAGATTCACAAT TCTGTCAGTTTTATGCATCAATTCACTAATGTCACTAAGAACTGTGACCCAGTGTGACTG CTGTAGAATCCACCTGCCCTACATATCAGGCGATTGAAATCACCGAGGCACTCAATTTAG AATTAGAACTGAAAGGTTGTTCTGACTGGATGCAAATAACTTCAAAGCGTGATTGCAGAC TTTCTGCAGGGGATATTGAGTTTCCAGTCAAAGAAGACTGATAAGCCAGTGCAGCAGAGC AGGGAGCCAGACAGAGGCTGAGCAGCAATTAAGGTTTCTGGTGCTTGGGTTAGAAGGAGA GCTGCCCTTTCTGTTCCTGCATCAGTCTCCATAGCTGAACATTCAGAGCATCAAGGGTGT TCCAAATTTAATTCAAGGGCCCGCTAATTTCAACTAACGTCCCTTATTTCATCCCAGTCT ACATCATGGAATAATCCCTCTTTTTCTGTCATTCTGAATTTTAGTTTTGCTTTATCAAAG CTCTTTGACATCAATTAAGTTTTTTGGGCCTCATACAGGCAGTTTTCTGGAAAGGCTGGG AAGGCTCCCTGTCCTCAAAAACTTCCTTTGGACATACTGGTAAAGTGTGGGGTGCTGCA CAGTGCACAGGGGCGCACTTTTCCTTCTGCAGCCCTGCCTCTAGGTGCAGCCTAATCACA GAGGTGCTTTGAGATGTAATAAGAATGCTGGGATCTGAGCTCTAGAATGGGGATGTGAAT GCACACCCTTTTATAGTTTCTAATATTAGGTGTGGGAGGAGGAGGAGTCAACCTGTTCTT TTTGATCCTGGCCATCTAGACTACTAAGTGCTGTGTTCATCATGAGTGCATGAAATACTC ATAAATGCTATGAATTACATACAATCATTACTCTTACTTTTGCAGTTGAGGAAACTGAGC GTAGAGCCAGAGTTTGAATCCAGGCCTCTTCATGCCTTTTGTACATTATGAGCCCAGTGT AAAGATTTGAAGGAGGGTTCAGAGAGCAGCTTCCACAAGCGATGCTGAAGTCTTCCCACC AGAGGACCACTTGCTGTGCAAATGACCTGGCTTCCTAGGTGCACCCATAGGCACTAACCT GTCATTTTCACAATGTCATTAATACACATACCCAAGCACGAGCAGCTGTGTATCCTCATC CACCTATTCAGTTCTGACTAATAAACCAGGCAGCTATTCAGAGTCTACTTTTGTCTTTGG TATTGTGATAAAACATTTCGTCCTTTTATCTGAACCGAGTGGACTTTGGCCAATGCACAC TCTTCCTTTGTCCTCATTTCTCCTTGAACCCTTTCTTGCCTCATCTAGGAGCTGAATGG ATTGATAGCAATGATTTGTCCTCAGTGGGAACAAATGCCAGGATCCTAAAGATTCTAGTT TCTGTAGGACAGATAAAACCAATATAATATTTCACATACTTGGCAAGCACAACATGGGTG GTGATCAGCTTAAGATAAAAATTTAAAAATCTATTCCTTATTAAAGTGAAACATATTTAT TATTTTATACAAGTTACCTGTTCTGGTGGACAGAAGTCAAAATGTGCCTTACTGGGTCAA AATCAAGGTATGTAAAGGTAAGTCTGTTTTTGTGAATACAAAAATTCATTATGAAACAAA ATAATCTCCTCACTTTGAACATGGGAAAGCACCTTTGTTCTCCACATGCACAATAATTTA TCAGTTGGCTTTCACTGTGCTGGCCATTCATCAATCTTTATTCTGATAGTAGAATCACAT GCTTTTTTCTCTTGATCATCCACAGACTGTCAGAGAATCCAATTAAACTGCTGCATGTCC GCTCTGCTGCCCAGGCTGGAGTGCAGTGGCATGATTTCAGCTCACCATAACTTCCGCCTC CCAGGTTTAAGCAATTCTCCCGCCTCAGCCTTCTGAGTAGCTGGGACTACAGGTGTGTGC CACATGCCCAGCTAATTTTTGTATTTTCATTAGAGATAGAGTTTCACCATGTTGGCACCA GTAATCATTTTATTGTTGTTACAAGGTCTAGCCTTTATAATGCTAAAGTTCTTTATAAAC TCTTAGCAGCATGCAGCAGCCTACATACTAGTGCATATTTACCACATGGTGATGGC ATGTGGAGAATGAGCACTCAAAGTAGGGCCATGATGTTTTTGAAAACCATGCTCTTGTTC TTCTGTTTTGCTTTCTCTGGCATCTCAGCTTGCTATATTATTTTAATCTTCTAGAGCTCA

AGTCAAAAGGCATATTCACTCTACATCTCCTATGACTCCTTCTCTATGTACTCACCACAC TTTTTCTGCCCTCTATTATAGCATTTACTTCATAGACCTTGTTTTGTTTTCTTTGCAGAT AGCTGTGTATGTTAATGGTGAGCACCCATAAAACCATTCTGTTTTTCACTTTCAGTAAAG TATTCAATAAATTATATGAGCTATTAAACCTCTATTATAAAATAGGCTTTGTGGTAGATA ATACTGACCAACTATAGGCTGATATATGCGTTCTGAACATGTTTAAGGTAGGCTAGGCTT AGCTACGAAGTTCAGTAGGCTATGTGTATTGAATGTGGTTTGACTTAACTATATTTTCCA ATTACAATGTGTTTATTGGGATGTAAACCCATCAAAAGTTAAGAAGCATCCATATTCAGG TGCTTCTCTATTGAACTAAAAAAGTTGTTGGAGGTAGAGAGCTAATCATCTTTTTAT CCCTTCTCTTCTAGTACTTTGTCCCTAATGTAAGGACCAAATGCAGCTCATTCAAGCTCA TCGTCTTTGTGCCAGATTCCCTTTGCAAGAAATAGACACTCAATAATTACTACCTGAATG AATCAGATAAACCATGGATTTTTTCAGTTTAATTTTTTTATCACAAAGGTGAAACAATTCC AACTATCTTTCAGGAATGCATAGAGTATTATTAATACTTTATATGTTGAATGTTTGGATC TTATCTCAAGACTAGTCTAGGATGTGGTGTAGTGCGAAAGTGTTAGGATTAAGAA ACTAGGATTTAGAACCATCTCTGCCAAGGATGAACCAAGATGCATGAGATGACTGGCACC AAGATCTGTGAAATATAGGAGTGGCACACATGGTAGAGCATGGTCTTGAGAAGACTGGTT CTCAGATGCAAACATCAAGGTGCTAAGGAACATTGCCTTTGTCAAATGGGAGACAGTGCC ATAATCTGTTATGAAAAGTGCTAAACATTTCCCTTTAATGTTGCAGCACCAGGTTTATGA TGCTTTGGGGTGGGGTGGGGGTGAGGGGACTATAGGAATAATTGTATTATTTTTGTTAA ACAACCAGGGGCTCTCAGCCTTTCTCAAGGTTCATAAGTTCACCAGGAGTCTTCATCCTT ATGAATATTACAACCTCACTGTGATTTTCAGAATCCCTCTTCTATAAATCAGCACATAAT CAATTATTTATAAGTTTTAATGAGGGACTATCAGGATACTTTAACTTAAAATTATGAAA GACACTGAATTTTGTGACTCCACATGTGGGTTTAACATCTAAAGAATAAAAACATTTACC ACTTGTTTTTACACAAATTAACCTAAATCACAGCAAAAGATTCTTAATCAGACAATTCCT GATTTTCAAGGTTTAGAAGCATTGTGAAGCAACGAGTGAATGCAAACTTACTGAGCAACT ACTATGTATCCAGCACTTTGTGAGATGCTTTCACAAAATCAAATTTCATTTAATTCTCAC GAGGACTTAAGTGACTTGCCTAAAGCCACTGGACGTAAGTAGATATTCAGCACATATGTA CTGGAAAATCAATGGATGACTGAATGAATATCTGGAAGGCACTGAATTAGCCATGAAAGC AGTAACACCATCATAAAGCCATTCTCTGAACCCTGGGAATTCATGACCTGGGGTGATGTA TAAAGCATATCTATGAAATGAAAAATTTTTTAAAAAACAAGTTAGGAGATGAAGGTCTTA AAATTTCTTGTTCTCATTTACTAGACTATGAATCCCTGAGCTTTAAACACCATTGAGTTG CTCACAGCATGAGCTTTGCAGCCAACAAGGCCAAGTTCATGTCATGATTCTCTATTTTCT AGCTCTCACAGAAACTTTCTGAATTTTTTTTTTTTTACTATGCAAAATGGGAATCACAGTA GCTCCTGCCAAGGAACTTGTTAAGATTAAATGAGTTTTTGAGTGTTTTGAAGCACAGGTCTA AATCCTACCTCTCAGTAGGTATGCCCACATTATTACTGAAGTGAGTAACACAGATCAAAG AAGGAAGTTTAAATCAGAAGCACCTAAAACTAGAAGGAGCTGAGATTCTGTAATTGGTGA TTACTAAGGAATAGAAGGCCATGCCCACCTTGAACTAAATACAAAAAGCCAATGATCAGG TGTCTTCAGTTTGATTACATCAGACGTAACACTATCCTTTGCAAGTGTATTAGTCCATTC TCATACTGAGATAAAGAAACACCCAAGACTGGGTAGTTTATAAAGAAAAGAGGTTTAATG GCCTCACAGTTATGCATTGCCTGGGAGGCCTAAGGAAACTTACAATCATGGCAGAAGGCG AGCATGGGGAAAACCATCCCCATGATTCAATTATCTCCATCTTGTTTCTCCCTTGACATG GCATAACTATATTAGCAAGTAAAGACACTCAGTGAGTTGGATCTCTCAGCACCAGCAGGG CCTACAAGCATATATGCTCTAGGAGCAGTGTAGTGTCTCCTTAAGTCTAGTGGGGCATAA AGGAAAACAATCCCATAATAATTTTCCAATGCTTCACAGAAAAAATTAGCACAGCAAAC ACAAGGAACACACTTTCTCTTTAACAAGAGTAATTGCAGTGGAAAATGCACATTTGTTC ATCCGACGCTAAAAGTTACCTATGGCTTTCCACTGTCAACTGGATTTTTCCTATTGATTT GCATTTGAATGACATGCCTAGATGAGGGGAATAACTTTGATAATGAGGGTGGGGTTAGGA TATCCACAAAGACGGACAACTGCGTCTAGGATGAAAGCAGAGGTGGCACAGGCACCAGGA AAACAGAGTAAGTGAGGCAGCTAGATACTTACAAATCATATGAGTCATAAACAGTGGCAA

AAGTCTCTAAAAGAAAAGCTTAGCAGAAAAAACATCCAATAAGCAAAATAGTGTCAGAAA ATTTCTGGATAAATAGTATCAGAAAAGTTTAGTACTTGGAGATAATTTTGAAAACTTTTA ATGAGTACACTGATTATACAGATAATTAAATAAGACAATATTTGCCAAATACTATCTGTG AGGCTCTCCAGATTACTGATGGTTATCTTAGAGCCTTATAGGGAAGACAGCAGAGCAATT ATCATTTATTGAGGGTGTTAGATACTCTTTCATTACCTAATCCTAACACAAATTTGCAAA GTGCTTATAATTAGAGCCATTTTACAAAGAGAAAAATAGAGAATCAGGGGTCTGTAAG TGACTTCTCCAAGGCCACTGCTACTGATTTTAGGATTTGAGTTAGAATTTTATTACAAGT GGTACCAAATATACCACATGGTTCAGGAAACTCAATGAAGCTAACCATCTTTCAATAATA GAAACTATTATTAACAATAATGTAATATTAATAAGCAACACAAGTTATTATTAATGTCTA TTATCTACTGATGTCACCAGTACCTCCTTAATTTACAGAGATGTAGTTACAGATATCTGA AGACTGACTGACTCATCACTGGTGTCGGCCAACAGCTTTTGGCAAATTCTTAACC CAAGTATCAAATAGGCAGACAGAGAAAATTGCAAGCACTCAGTTTCTAAAATATGTTCAT ATGTTAATGCTCTCTGAATAATTTCCTACATTTGAAATCATTTTTGAAAAATCAAAACTT GTGTCCTCTGTTTAGCATGCAGTGGCATGACAAAGAAACAGCAATAAATGATAAAATTT TTTTAAAGAACCTATTCTGACTTAAGAGAACTCAGAACGAATGAAAACATACTGATATAA AACATTTATTTCATTTATTTCTCAGTTTCTTATGCTAGTTATTTTACCTGTAAATAATTTG CAAATTAGAGTCAAATGTTTTAGATTTTAGAGGAAAATGTCATGGAGAAAATAATAGAAT TGGTATTAGATCCTTGGAAATGGGTTGGTAACTGTTCCACAGTTGTAACATCTAACCATT TAGAGTCTGTAAAAATCACATATTTCAAACGTCATCATTTGGAACTAATTTAGTATCAAG TTTTTAAAGCAGGGTCTTCACTCTGTTGACCAGGCTGGAGTGCAGTGCAGTCACAGC CCATGGTAGCCTTGAACTACCCGGGCTCAAGTGATCCTCCCACCTCAGCCTCCTGAGTAG TTCTCACCATGTTGCCCAGGCTGGTCTCTCACTCCTGGGCTCAAGCGATCTGCCTACCTC GGCCTCCCAAAGTGTTGGGATCACAGCAGTGAGCCACTGTGTCGAGTCTAAAACACTTTT TAAAAGAGGAGTGGATTTGAATTTTAGCATGTGTATCTAAAAATGATTACTTTTTGGAGA ACAATATTTTAATTATTAATTTAAAACTATTAATTTGGAACACCCCAATAATTTTGTT CATATTTTAATCAAAACACAAGCTTTGAAAACAGGTTTCCCTCCTTGCCATTATGTCCTG GATTTTTCTTTGGTGAACACACTATCATTCTAGAAAGTCAAGTTCTCCTGGAATAAGAAA AAGAACAGATCTTACTTATTTTTTTTTCTCCATAAATCACCTCTCCGTTAATGTCCAGT CAGGGCTGATCATTTCTTAATTTAGAAATGTTGAATTTTATGCTATGAACTTGAATAAAT ATACATTGTCCTTAAATTCATAGGTATATGTTTTTTTCTGTTTTTGTTTTTTAATT TTATGATTATTATACTTTAAGTTTTAGAGTACATATGCACAATGTGCAGGTTTGTTACAT ATGTATACATGTGCCATGTTGGTGTGCTGCACCCATTAACTCGTCATTTAACATTAGGTA TATCTCCTAATGCTATCCCTCCCCCCCCCCCCCCCACACAGTCCTCAGTGTGTGAT GCGGTGTTTGGTTTTTTGTCCTTGTGATAGTTTGCTGAGAATGATGGTTTCCAGCTTCAT CCATGTCCCTACAAAGGACACGAACTCATCATTTTTTATGGCTGCATAGTATTCCATGGT GCATGATTTATAATCCTTTGGGTATATACCCAGTAATGGGATGGCTGGGTCAAATGGTAT TTCTAGTTCTAGATCCCTGAGGAATCACCACACTGACTTCCACAATGGTTGAACTAGTTC ACAGTCCCACCAACAGTGTAAAAGTGTTCCTATTTCTCCACATTCTCTCCAGCACCTGTT GTTTCCTGACTTTTTAATGATTGCCATTCTAACTGGTGTGAGATGGTATCTCATTGTGGT TTTGATTTGCATTTCTCTGATGGCCAGTGATGATGAGTATTTTTTCATGTGTTTTTTTGGC TGCATAAATGCCTTCTTTTGAGAAGTGTCTGTTCATATCCTTCACCCACTTTTTTGATGGG GTTCTTTGTTTTTTTCTTGTAAATTTGTTTGAGTTCATTGTAGATTCTGGATATTAGCCC TTTGTCAAATGAGTAGGTTGCAAAAATTTTCTCCCATTCTGTAAGTTGCCTGTTCACTCT GATGGTAGTTTCTTTTGCTGTGCAGAAGCTCTTTAGTTTAATTAGATCCCATTTGTCAAT TTTGGCTTTTGTTGCCATTGCTTTTTGGTGTTTTAGACATGAAGTCCTTGCCCATGCCTAT GTCCTGAATGGTATTGCCTGGGTTTTCTTCTAGGGATTTTATGGTTTTAGGTCTAACATT CAGCTTTCTACATAGGGCTAGCCAGTTTTCTCAGCACCATTTATTAAATAGGGAATCCTT TCCCCATTGCTTGTTTTTCTCAGGTTTGTCAAAGATCAGATAGTTGTAGATATGCGGCAT